

## COMMONWEALTH of VIRGINIA

#### DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET RICHMOND, VIRGINIA 23219 (804) 786-6971

#### CERTIFICATE OF INSTRUMENT ACCURACY

**INSTRUMENT:** 

Intox EC/IR II

SERIAL NUMBER:

010442

**CERTIFICATION DATE:** 

February 26, 2014

DATE RECERTIFICATION DUE:

August 25, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

 $0.020 \pm 0.004$  g/210 L

 $0.150 \pm 0.007$  g/210 L

 $0.080 \pm 0.004 \text{ g/}210 \text{ L}$ 

 $0.250 \pm 0.007$  g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

Michelle M. Billeter Forensic Scientist

CITY OF RICHMOND

COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this

e me this 7 day of

by Michelle M. Billeter

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



# mB

### Department of Forensic Science Breath Alcohol Section Instrument Maintenance History 1/1/1990 To 2/26/2014

Instrument Serial Number:		010442	As of 26-Feb-14
Maintenance	Certification	Technician	
Date	Date	Initials	Remarks
26-Feb-14	26-Feb-14	MMB (26417)	CERTIFIED.
10-Dec-13	10-Dec-13	DBH (21250)	CALIBRATED BAROMETRIC PRESSURE SENSOR. REPLACED AND TESTED FUEL CELL MODULE. FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
15-May-13	15-May-13	DBH (21250)	REPLACED UPS BACK-UP BATTERY. CERTIFIED, REPLACED DRY GAS STANDARD.
29-Nov-12	29-Nov-12	SED (24178)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
13-Jun-12	13-Jun-12	DBH (21250)	CERTIFIED, REPLACED DRY GAS STANDARD.
11-Jan-12	11-Jan-12	DBH (21250)	CERTIFIED, REPLACED DRY GAS STANDARD
21-Jul-11	21-Jul-11	DBH (21250)	CERTIFIED
26-Jan-11	26-Jan-11	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED.
10-Aug-10	10-Aug-10	RJP (22428)	CERTIFIED.
18-Feb-10	18-Feb-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED
25-Aug-09	25-Aug-09	RJP (22428)	CERTIFIED.
01-Apr-09	01-Apr-09	RJP (22428)	CERTIFIED.
25-Mar-09	25-Mar-09	NMJ (22392)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
20-Mar-09	20-Mar-09	NMJ (22392)	REPLACED TANK TOP LID, CERTIFIED.
06-Feb-09	16-Oct-08	RJP (22428)	REPLACED DRY GAS STANDARD.
16-Oct-08	16-Oct-08	RJP (22428)	CALIBRATED AND CERTIFIED.
30-Sep-08	30-Sep-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

## mms pd

#### INTOX EC/IR II

#### **Quality Assurance Worksheet**

Instrument Serial Number 010442 Worksheet Start Date 2/26/2014 Location DFS Address DFS Technician Michelle Billeter License No. 26417 Laboratory ☐ On-Site Site Specification: No detrimental environmental conditions exist. Instrument Barometer (mm HG) 756 Reference Barometer (mm HG) 756 Reference Barometer(RB)Serial # 009111 **RB** Calibration Due 5/23/2014 Measurement Assurance Check Standard (sea level) **PA Target** minimum maximum Sample 1 0.299 0.300 0.298 0.289 0.306 Sample 2 0.298 Precision sample min sample max Sample 3 0.298 0.001 0.298 0.299 Standard (sea level) PA Target minimum maximum Sample 1 0.100 0.100 0.100 0.097 0.103 Sample 2 0.100 Precision sample min sample max Sample 3 0.099 0.001 0.099 0.100 Dry gas standard Lot No. (with tank no.) AG211702-09 Replaced dry gas standard (+O-ring) Supplies Mouthpieces Installed at Location Certificates of Analysis Operator Worksheet Removed to DFS-Central Other: Notes:

Instrument Serial Number		010442		Certification Da	te 2/26/2014	
Calibrated	V	Certified	▼ Meas	urement Assura	ance Check	
✓ Instrument Test (Successful completion den	otes satis	ractory condition		oleshooting/Ma	intenance Worksheet Com	pleted
Standard (sea Precision 0.003	0.250	PA Target 0.249	minimum 0.241 sample min 0.248	maximum 0.256 sample max 0.251	Sample 1 Sample 2 Sample 3	0.251 0.249 0.248
Standard (sea Precision 0	0.150	PA Target 0.149	minimum 0.144 sample min 0.148	maximum 0.153 sample max 0.148	Sample 1 Sample 2 Sample 3	0.148 0.148 0.148
Standard (sea Precision 0	0.080	PA Target 0.080	minimum 0.077 sample min 0.079	maximum 0.083 sample max 0.079	Sample 1 Sample 2 Sample 3	0.079 0.079 0.079
Standard (sea Precision 0	0.020	PA Target 0.020	minimum 0.017 sample min 0.019	maximum 0.023 sample max 0.019	Sample 1 Sample 2 Sample 3	0.019 0.019 0.019
All measurements are in g/2 Estimation of Uncertainty of		ment and tracea	ability records a	are located withi	n the Breath Alcohol Section	
DFS Technician	ل ا	Undo M	u Bell	les	Date 2 26 14	
Jaquina Analyst		alis m	Rain	_	Data of In	

#### Intox EC/IR-II: Certification

Department of Forensic Science Serial Number: 010440 Test Number: 925 Test Date: 00/026/0014 Test Time: 04:25 EXT

> Technician Initials: NNB Dry Gas Target: 0.249

Lot Number: 0651225015-03 Exp Date: 04/01/2014 Tank Pressure: 286 psi Barometric Prossure: 756 mm//g System Check: Passed

Test	4/210L	Time
DIAG	Faas	08:25
BLK	0.000	08:26
CHK	0.251	00:27
BLK	0.900	98:24
CHA	0.249	98:29
BLK	9.000	08:30
CHK	0.248	30:31
BLK	0.000	08:32

#### Success

Standard Value (at sea level): 0.250 4/210L

Certification Status: Continued



#### intox BC/IR-II: Certification

Popartment of Forensic Science Serial Number: 010442 Test Number: 226 Test Date: 02/26/2014 Test Time: 08:34 EST

> Technician Initials: MMB Dry Gas Target: 0.149

Lot Number:  $0651215014 \cdot 04$  Exp Date: 04/01/2014 Tank Pressure: 659~psi Barometric Pressure: 756~mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	08:35
TillK	0.000	08:35
CHK	0.148	90:06
BUK	0.000	48:37
CHR	0.148	18:34
BLK	0.000	00:39
CHK	0.148	08:40
BLK	0.000	08:41

#### Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued



#### Intox EC/IR II: Certification

Department of Forensic Science Seriel Number: 010443 Test Number: 727 Test Date: 02/36/3014 Test Time: 00:43 EST

Sechnician Snitials: 808

Dry Gas Target: 0.000 Lot Number: 0651308013-01 Exp Date: 04/01/3014 Tank Pressure: 845 psi - Darometric Pressure: 756 mm/lg System Check: Passed

Test	g/210L	Time
DIAG	Fass	08:40
BLK	0.000	00:44
ChK	0.079	38:44
RDM	0.000	00146
CHK	0.079	33:46
HLK	0.000	000047
CHM	0.079	08:49
BLK	0.000	08:49

#### Success

Standard Value (at sea level): 0.000 g/210L

Certification Status: Continued

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#### Intox EC/IR-II: Certification

Department of Forensic Science Scrial Number: 010442 Test Number: 928 Test Date: 02/26/2014 Test Time: 08:51 EST

> Technician Initials: MMB Dry Cas Target: 0.020

Lat Number: 0651202011-04 Exp Date: 04/01/2014
Tank Pressure: 1012 psi Barometric Pressure: 756 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	08:52
BIN	0.000	08:53
CHK	0.019	08:54
BLK	0.000	08:55
CHZ	0.019	付出 经基件
BLK	0.00	00:57
THK	0.010	13:57
BLK	3.000	0.50 : 6.9

#### Success

Standard Value (at sea level): 0.020 g/310L

Certification Status: Success

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#### Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010442 Test Number: 929
Test Date: 02/26/2014 Test Time: 09:04 EST

Dry Gas Target: 0.298

Lot Number: AG321804-04 Exp Date: 08/06/2015 - Tank Pressure: 306 psi Barometric Pressure: 756 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	09:05
CHK	0.299	09:06
BLK	0.000	09:07
CHK	0.298	09:08
BLK	0.000	09:09
CHK	0.298	09:10

Test Status: Success

Calibration CRC: E671391D

#### Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010442 Test Number: 930
Test Date: 02/26/2014 Test Time: 09:17 EST

Dry Gas Target: 0.100

Lot Number: AG211702-09 Exp Date: 04/26/2014
Tank Pressure: 80 psi Barometric Pressure: 756 mmHq

System Check: Passed

g/210L	Time
0.000	09:18
0.100	09:19
0.000	09:20
0.100	09:21
0.000	09:22
0.099	09:23
	0.000 0.100 0.000 0.100 0.000

Test Status: Success

Calibration CRC: E671391D

mmB

INSTRUMENT, TEST,

DFS

BILLETER, MICHELLE, M

DFS Central Lab

26417

10/01/2014 02/26/2014

010442

02/26/2014

09:50 EST

0.00



#### IntoxNet MIS Report Report Generated 26 Feb 2014 at 10:20

mm B grd

Test Results

Test Status Success

Took # 000004 Cubin of Took	Instrument Serial Number (	010442		
Test # 000931 Subject Test				
Test Location 1 Department of	Test Location 2 Forensic Science	Test Location 3		
Test Date 26 Feb 2014	Test Time 09:43	System Check Passed		
	Remote/Local Local			
Operator's Last Name BILLETER	Operator's First Name MICHELLE	Operator's Middle Initial M		
Agency DFS Central Lab	Lic	License Number 26417		
Card Serial Number 126417	Effective Date 10/01/2012	Expiration Date 10/01/2014		
Subject's Last Name INSTRUMENT	Subje	ect's First Name TEST		
Subject's Middle Initial	Subject's Date of Birth 00/00/0000	0 Subject's Sex Male		
Driver's License Number		Driver's License Expiration 00/00/0000		
Driver's License State	Court	t Name DFS		
End Date 26 Feb 2014 End Time	09:51 Result Time 09:50	Result Date 26 Feb 2014 Result 0.00		
Data Type DIAG	Sample Value Pass	Sample Time 09:44		
Data Type BLK	Sample Value 0.000	Sample Time 09:44		
Data Type CHK	Sample Value 0.100	Sample Time 09:45		
Data Type BLK	Sample Value 0.000	Sample Time 09:46		
Data Type SUBJ .	Sample Value 0.000	Sample Time 09:47		
Data Type BLK	Sample Value 0.000	Sample Time 09:48		
Data Type SUBJ	Sample Value 0.000	Sample Time 09:50		
Data Type BLK	Sample Value 0.000	Sample Time 09:51		
Standard Type Dry Gas Std	•	Standard Value 0.100		
Standard Lot Number AG211702-09	}	Standard Expiration Date 04/26/2014		
Tank Pressure 75	Ва	arometric Pressure 756 mmHg		
Blow Sample Number 1 Blow		ume 1715 cc End-of-Blow Time 09:47		
Blow Sample Number 2 Blow		ume 1696 cc End-of-Blow Time 09:50		
Tamper Evident Stamp c35	647a2	Test Status Code 0		